of the eclipse. Certain areas may show greater tendency to cloudiness than others, and this fact will have some weight with observers in choosing their stations.

"The eclipse track for May 28, 1900, passes over the Southern States from New Orleans, La., northeastward to Norfolk, Va., and it will be surveyed by the U. S. Weather Bureau for the benefit of the astronomical expeditions.

" . . . Beginning with May 15, 1897, and continuing until June 15, 1897, so as to include May 28th centrally, observations were made at sixty-six stations, . . . covering quite uniformly the portions of the States of Virginia, North Carolina, South Carolina, Georgia, Alabama, Mississippi, and Louisiana, over which the track is plotted. . . . The *general state of the sky* at 8 A. M., 8:30 A. M., and 9 A. M., was noted. . . . At the same hours *the state of the sky near the Sun* was observed. The observers were generally volunteers, who did this work at the request of the Weather Bureau. . . .

"Judging from the table [of the results of the observations] it would be much safer to locate in central Georgia or Alabama, upon the southern end of the Appalachian Mountains, *where the track crosses the elevated areas*, than nearer the coast line in either direction, northeastward toward the Atlantic coast, or southwestward toward the Gulf coast.

" . . . It is intended to repeat the observations during the years 1898 and 1899, after which we shall be as well informed as possible regarding the selection of the eclipse stations for the year 1900."

Eclipses of *Jupiter's* Satellite IV.

The present cycle of eclipse phenomena for *Jupiter's* fourth satellite is nearly closed, and, of course, the latest observations are among the most favorable for correcting the ephemeris. Immediately after *Jupiter* has made his appearance on this coast, at midnight, January 9th–10th, Satellite IV will suffer eclipse, and the reappearance nearly two hours later should be well observed.

The last eclipse, when the satellite will be only half an hour in the shadow, may possibly be seen from Mt. Hamilton, on the morning of March 1st, when, although the Sun is just above the eastern horizon, *Jupiter* is low down in the west. C. B. H.

San Francisco, December 5, 1897.